

# MATERIAL SAFETY DATA SHEET

## SODIUM CHLORIDE

### 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** Sodium chloride  
**Synonyms:**  
**Company Identification:** Sisco Research Laboratories Pvt. Ltd.  
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### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
7647-14-5	Sodium chloride	99+%	231-598-3

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Irritating to eyes.*

#### Potential Health Effects

**Eye:** May cause eye irritation. Exposure to solid may cause pain and redness.  
**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.  
**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.  
**Inhalation:** May cause respiratory tract irritation. May be harmful if inhaled.  
**Chronic:**

### Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
**Ingestion:** Get medical aid. Wash mouth out with water.  
**Inhalation:** Remove from exposure and move to fresh air immediately. Get medical aid.  
**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. May be combustible at high temperatures.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Do not let this chemical enter the environment.

## Section 7 - Handling and Storage

**Handling:** Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

**Storage:** Store in a cool, dry place. Store in a tightly closed container.

## Section 8 - Exposure Controls, Personal Protection

### Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

CAS# 7647-14-5:

### Personal Protective Equipment

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Crystalline Powder
<b>Color:</b>	white
<b>pH:</b>	5.0-8.0 (5% aq. sol. )
<b>Vapor Pressure:</b>	1mmHg @865 deg C
<b>Viscosity:</b>	Not available
<b>Boiling Point:</b>	1461 deg C @760mmHg ( 2,661.80°F)
<b>Freezing/Melting Point:</b>	801 deg C ( 1,473.80°F)
<b>Specific Gravity/Density:</b>	
<b>Molecular Formula:</b>	NaCl
<b>Molecular Weight:</b>	58.44

## Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Stable. Hygroscopic: absorbs moisture or water from the air.
<b>Conditions to Avoid:</b>	High temperatures, incompatible materials, exposure to moist air or water.
<b>Incompatibilities with Other Materials</b>	Metals, strong oxidizing agents, strong acids, bromine trifluoride, iron, nitro compounds, steel, dichloromaleic anhydride + urea.
<b>Hazardous Decomposition Products :-</b>	Hydrogen chloride, sodium oxide, irritating vapors.
<b>Hazardous Polymerization</b>	Will not occur.

## Section 11 - Toxicological Information

**RTECS#:** CAS# 7647-14-5: VZ4725000

**LD50/LC50:** RTECS:  
**CAS# 7647-14-5:** Draize test, rabbit, eye: 100 mg Mild;  
Draize test, rabbit, eye: 100 mg/24H Moderate;  
Draize test, rabbit, eye: 10 mg Moderate;  
Draize test, rabbit, skin: 50 mg/24H Mild;  
Draize test, rabbit, skin: 500 mg/24H Mild;  
Inhalation, rat: LC50 = >42 gm/m<sup>3</sup>/1H;  
Oral, mouse: LD50 = 4 gm/kg;  
Oral, rat: LD50 = 3000 mg/kg;  
Skin, rabbit: LD50 = >10 gm/kg;

Other:

**Carcinogenicity:** Sodium chloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information. Mutagenicity: Ames-test: negative.

## Section 12 - Ecological Information

**Ecotoxicity:** Fish: Pimephals prome: LC50: 7650 mg/L; 96H; .  
Daphnia: Daphnia: EC50: 1000 mg/L; 48H; .

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	Not regulated.	Not regulated.	Not regulated.
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

Section 15 - Regulatory Information

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 7647-14-5: 0

Canada

CAS# 7647-14-5 is listed on Canada's DSL List

**US Federal**

TSCA

CAS# 7647-14-5 is listed on the TSCA Inventory.

Section 16 - Additional Information

**SISCO RESEARCH LABORATORIES** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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